PDR RID Report

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Review CSMS
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Section **Page** **Figure** **Table**

Category Name Design-ISS **Actionee** HAIS
Sub Category
Subject EOC LAN configurations

Description of Problem or Suggestion:

Have simpler (and therefore probably more robust) options for EOC LAN configurations been adequately considered? Examples include: all FDDI solutions with components like concentrators rather than bridging hubs, etc. bridging ethernet hubs with FDDI hosts connected to concentrators, etc. ? Have M&O costs associated with additional complexity due to switchbed segments and additional components been adequately considered in cost-benefits trades?

Originator's Recommendation

GSFC Response by: **GSFC Response Date**

HAIS Response by: Forman **HAIS Schedule** 2/28/95
HAIS R. E. Moore **HAIS Response Date** 3/17/95

Prior to PDR, CSMS evaluated several options for implementing the EOC LAN network. The options evaluated included high performance FDDI/Ethernet hubs, use of lower-end FDDI concentrators with separate Ethernet hubs, and various iterations of these options. The evaluation of each option took into account such things as cost, maintainability, ease of operation, etc.

The option selected involves use of high-end hubs containing both FDDI and Ethernet interfaces in a single chassis. This has the advantage for M&O of requiring only a single vendor device with extensive management capability. The hub itself is also internally redundant and fault-tolerant.

CSMS is continuing to work with FOS to determine the FOS hardware quantities and refine the assumptions made during the PDR design phase. Part of the continuing design in preparation for CDR is to re-evaluate the hardware implementation for the EOC LAN, again taking into account the impact of the design on M&O, complexity, cost, etc.

Status **Closed** **Date Closed** **4/12/95** **Sponsor** **desJardins**

****** **Attachment if any** ******
